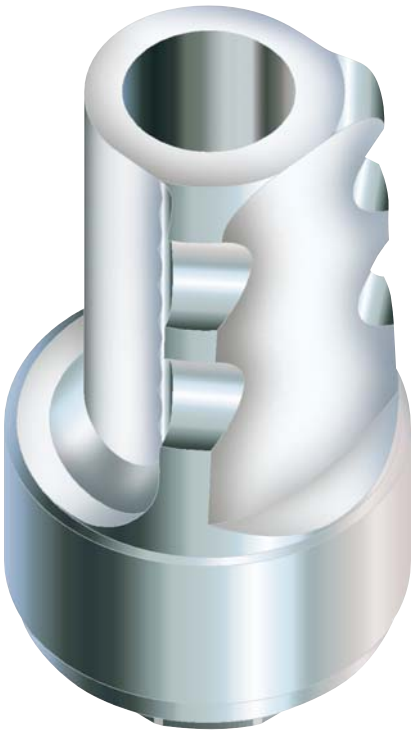
SwissPlus Manual
Impression Transfer System



Indirect (closed-tray) transfer technique

Implant-level Indirect Transfers or Fixture Mounts for closed-tray, transfer impression technique
Designed to transfer the soft tissue profile as well as the implant's position and octagon or hexagon (SPMB series) orientation. Indirect Transfers or Fixture Mount/Transfers remain attached to the implants when the closed-tray impression is removed from the mouth. The transfer is then retrieved from the implant, mated to the corresponding Implant Replica, and placed into its corresponding impression hole. To fabricate a working cast containing a replica of the implant in the patient's mouth, the impression is poured in dental stone.

Indirect implant-level transfers (purchased separately)

3.8mmD platform flared to 4.6mmD [SPMT]

4.8mmD platform flared to 5.2mmD [OPT/5]

4.8mmD platform flared to 6.0mmD [OPT/6]

Fixture Mount/Transfers (supplied with implant)

3.8mmD platform flared to 4.6mmD [FMTM2]

4.8mmD platform flared to 5.2mmD [FMT2]

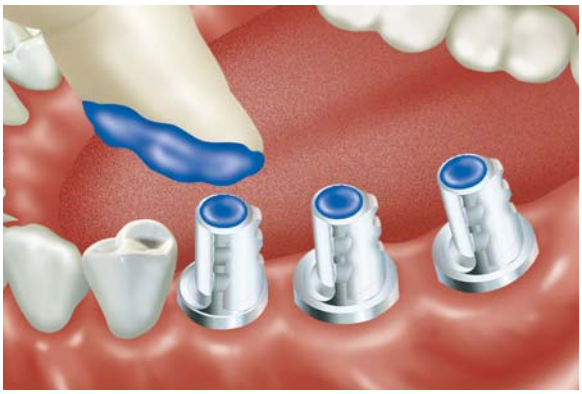
4.8mmD platform flared to 6.0mmD [FMTW2]

Exposing the tops of the implants
Remove the Surgical Cover Screws [SPMC, OPSC or OPWSC] with the 1.25mmD Hex Tool.

Attaching the transfers
Indirect Transfers and Fixture Mount/Transfers are available in a profile diameter corresponding to the Surgical Cover Screws supplied with the implant. The transfer components are used to transfer the anatomical soft tissue sulcus established by the healing of soft tissue around the Surgical Cover Screws.

Orient the flat side of the assembled transfer components toward the buccal surface, interdigitate its octagon or hexagon with the implant and press onto the implant. Thread the transfer screw into the implant and finger-tighten with the 1.25mmD Hex Tool. This placement will transfer the orientation of the internal features and implant interface to the working cast.

Indirect (closed-tray) transfer technique



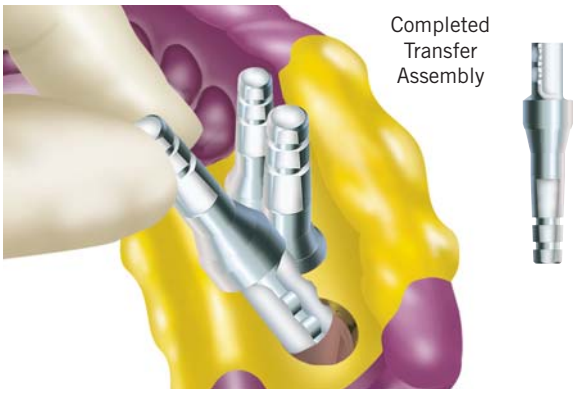
Making the transfer impression
Take a radiograph or use a non-abrading explorer to verify that the transfer components are fully seated. Block out the hex holes in the tops of the components with medium of choice to prevent the ingress of impression material. Remove excess material so that the blockout is flush with the ends of the transfer. Failure to do so may prevent an accurate transfer procedure.

Verifying the fit of the impression tray
Verify that the transfer components fit within the confines of the custom tray or the stock tray (shown) prior to injecting the impression material.

For direct (open-tray) technique exchange components according to the following list:

- OPT/5 or OPT/6 - exchange supplied screw with WSX screw.
- FMT2 or FMTW2 - exchange supplied screw with WSX screw.
- FMTM2 - exchange supplied screw with DHTS screw.
- SPMT - exchange with fixture mount [FMTM2] and DHTS screw.

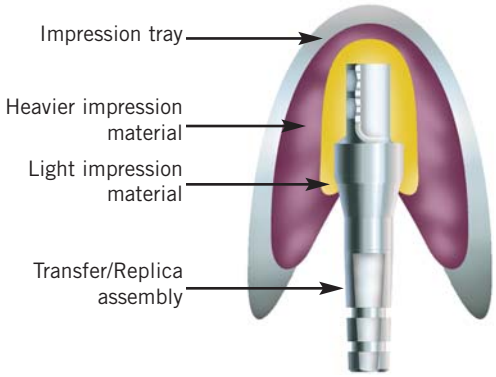
Injecting the impression material
An elastomeric impression material is recommended, such as vinyl polysiloxane. Inject light-body impression material around the transfers and fill the closed-tray with heavier body impression material. Make a full-arch impression, and allow the material to set according to the manufacturer's recommendations before removing. Unthread the transfer components from the implants in the patient's mouth. Make interocclusal records and an impression of the opposing arch. Send the impressions and transfer assemblies to the laboratory for fabrication of the working casts. Replace the Surgical Cover Screws on the implants in the patient's mouth.



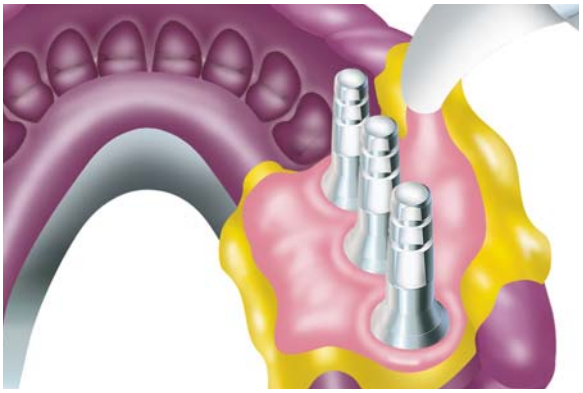
Seating the transfer assembly
Attach the Indirect transfers or fixture mounts to corresponding Implant Replicas with the 1.25mmD Hex Tool:
- Implant Replica for an internal hex mini SwissPlus Implant, 3.8mmD platform: SPMR.
- Implant Replica for an internal octagon standard SwissPlus Implant, 4.8mmD platform: OPR.

Align the flat side of each transfer with the flat side of its corresponding hole in the impression and insert the transfer assembly into the impression material. When using the transfers, a double click will indicate when the assembly has fully seated, or a single click if the fixture mounts were used to make the impression.

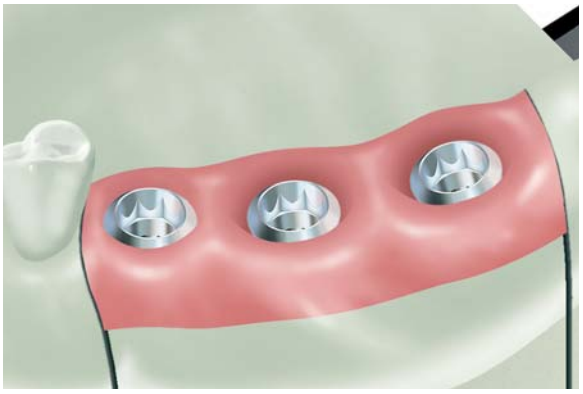
Indirect (closed-tray) transfer technique



Cross section of transfer impression
From the cross section of the Indirect Transfer impression, note that there is no access to the transfers from outside of the impression tray.



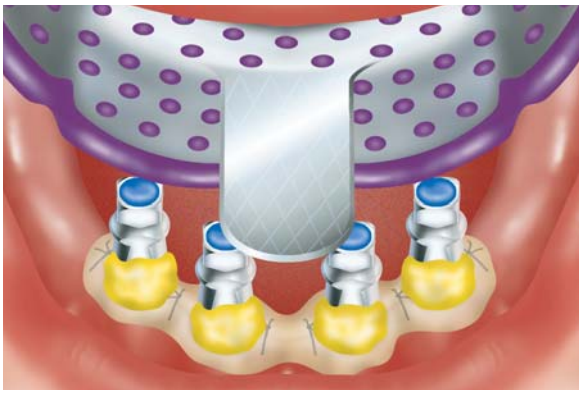
Fabricating the working cast
Place soft tissue replication material around the junctions of the assembled Implant Replicas and the transfers inside the impression. Take care not to cover the retention grooves of the Implant Replicas with the material. After the material sets, pour the impression in dental stone.



Fabricating the working cast
After the dental stone sets separate the cast from the impression. The Implant Replicas will be incorporated within the stone cast with the same octagon or hexagon positions and orientations as the implants in the patient's mouth. Unthread and remove the transfers from the Implant Replicas with the 1.25mmD Hex Tool. The soft tissue replication material can be removed for a visual inspection of the abutment/implant replica connections, if desired.

Pour the opposing arch impression in dental stone, then utilize the interocclusal records to articulate the casts.

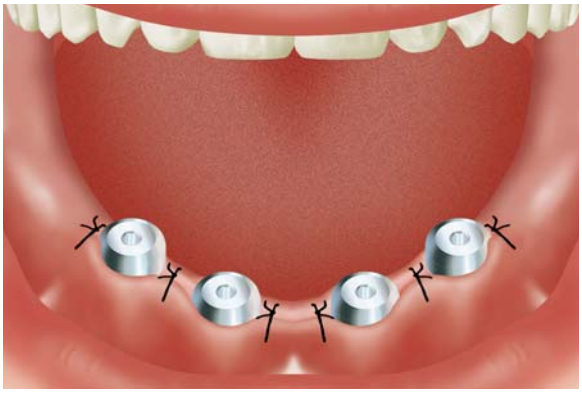
Immediate impression transfer technique
Making an impression at time of implant placement



Making an implant level impression
After placement, suture the soft tissue around the implants and attached Fixture Mount/Transfers. Block out the top of the Fixture Mount/Transfers. Place a covering of choice over the sutures to prevent them from getting trapped within the impression material. Inject light body impression material around the transfer and record a full-arch impression with standard body material.

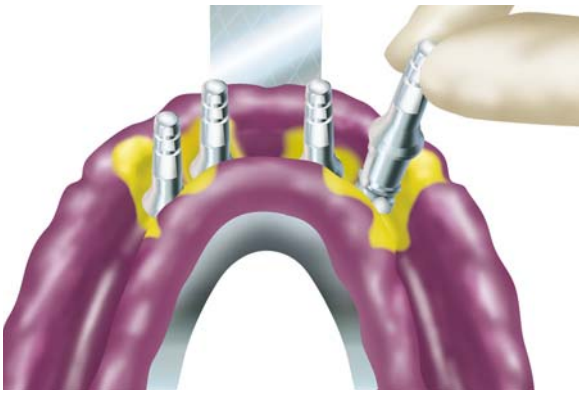
Remove the impression after it fully sets. Unthread the fixation screws using the 1.25mmD Hex Tool and remove fixture mounts.

Optional: Long impression screw [WSX for 4.8mmD octagon platform and DHTS for 3.8mmD hexagon platform] may be used for open-tray impression technique.



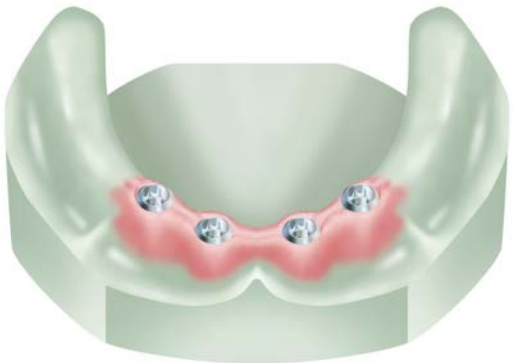
Attach components for healing period
Attach Surgical Cover Screws using the 1.25mmD Hex Tool. Care should be taken not to trap soft tissue between the mating components.

Forward the impression, transfer and diagnostic models to the laboratory for fabrication of the working cast.



Seating the transfer assembly
Attach the fixture mounts to corresponding Implant Replicas with the 1.25mmD Hex Tool:
- Implant Replica for an internal hex mini SwissPlus Implant, 3.8mmD platform: SPMR.
- Implant Replica for an internal octagon standard SwissPlus Implant, 4.8mmD platform: OPR.

Align the flat side of each Fixture Mount with the flat side of its corresponding hole in the impression and insert the transfer assembly into the impression material. A click will indicate when the assembly has fully seated.



Fabricating the working cast
Place soft tissue replication material around the junctions of the assembled Implant Replicas and the Fixture Mount/Transfers inside the impression. After the material sets, pour the impression in dental stone. Separate the cast from the impression.
The Implant Replicas will be incorporated within the stone cast with the same octagon or hexagon positions and orientations as the implants in the patient's mouth. Unthread and remove the Fixture Mount/Transfer from the Implant Replicas with the 1.25mmD Hex Tool. The soft tissue replication material can be removed for a visual inspection of the abutment/implant replica connections, if desired.

Pour the opposing arch impression in dental stone, then utilize the interocclusal records to articulate the casts.

Notes